



10/621486

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Docket No.: 03226/505001;
SUN030063
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Letters Patent of:
Luu D. Tran et al.

Patent No.: 7,506,070

Issued: March 17, 2009

For: METHOD AND SYSTEM FOR STORING
AND RETRIEVING EXTENSIBLE MULTI-
DIMENSIONAL DISPLAY PROPERTY
CONFIGURATIONS

Certificate
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of Correction

REQUEST FOR CERTIFICATE OF CORRECTION
PURSUANT TO 37 CFR 1.322

Attention: Certificate of Correction Branch
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir or Madam:

Upon reviewing the above-identified patent, Patentee noted typographical errors which should be corrected.

On the Cover Page:

On the Cover Page, section (73) Assignee, "Sun Microsytems, Inc." should be --Sun Microsystems, Inc.--.

In the Claims:

In Claim 1, column 18, line 45, the word "tot" should be --for--.

In Claim 9, column 20, line 17, the word "all" should be deleted.

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In Claim 9, column 20, line 40, the word "tot" should be --for--.

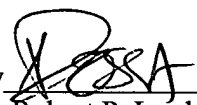
The errors were not in the application as filed by applicant; accordingly no fee is required.

Transmitted herewith is a proposed Certificate of Correction effecting such amendment. Also enclosed, as evidence of the error, is a copy of the cover page as issued, a copy of the Part B – Fee Transmittal, a copy of the claims as issued, and a copy of the Claims as allowed. Patentee respectfully solicits the granting of the requested Certificate of Correction.

Applicant believes no fee is due with this request. However, if a fee is due, please charge our Deposit Account No. 50-0591, under Order No. 03226/505001; SUN030063.

Dated: April 14, 2009

Respectfully submitted,

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(12) **United States Patent**
Tran et al.

(10) **Patent No.:** **US 7,506,070 B2**
(45) **Date of Patent:** **Mar. 17, 2009**

(54) **METHOD AND SYSTEM FOR STORING AND RETRIEVING EXTENSIBLE MULTI-DIMENSIONAL DISPLAY PROPERTY CONFIGURATIONS**

(75) **Inventors:** **Luu D. Tran**, Santa Clara, CA (US);
Jeffrey T. Blattman, San Jose, CA (US);
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(73) **Assignee:** **Sun Microsystems, Inc.**, Santa Clara, CA (US)

(*) **Notice:** Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 1383 days.

(21) **Appl. No.:** **10/621,486**

(22) **Filed:** **Jul. 16, 2003**

(65) **Prior Publication Data**

US 2005/0015513 A1 Jan. 20, 2005

(51) **Int. Cl.**
G06F 15/16 (2006.01)

(52) **U.S. Cl.** **709/246; 709/217; 709/219; 455/414.1; 455/414.4**

(58) **Field of Classification Search** **709/246, 709/217, 219; 455/414.1, 414.4**
See application file for complete search history.

(56) **References Cited**

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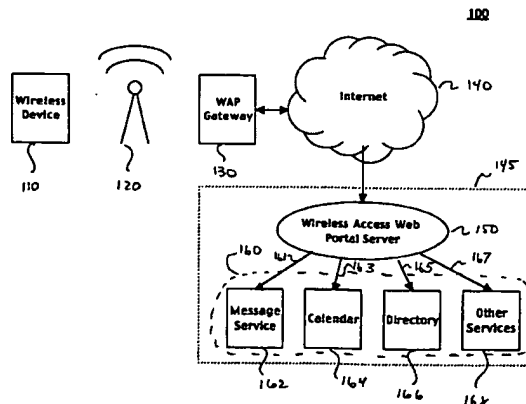
(Continued)

Primary Examiner—Kenny S Lin
Assistant Examiner—Duyen Doan
(74) *Attorney, Agent, or Firm*—Osha • Liang LLP

(57) **ABSTRACT**

A method and system for storing and retrieving extensible multi-dimensional display property configurations. In one embodiment, a method is disclosed for the display of content that is configurable to a variety of contextual environments by reading a plurality of settings that are associated with an electronic device requesting content. The plurality of settings defines the contextual environment of the electronic device. The method continues by incorporating the plurality of settings as values in the list of filter criteria. The list of filter criteria is organized in a hierarchical order and specifies the format within which to present the content to be displayed at the electronic device. Thereafter, the method continues by matching the list of filter criteria with a resource to be displayed with the content. The resource is retrieved from memory for ultimate delivery to the electronic device for display.

12 Claims, 8 Drawing Sheets



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TABLE 6-continued

```

</ConditionalProperties>
</ConditionalProperties>
</Properties>
List plist = new List( );
plist.add(getProviderContext( ).getLocalePropertiesFilter(
    "de", true));
plist.add(getProviderContext( ).getClientPropertiesFilter(
    "ericsson", true));
getStringProperty(getName( ), "a", plist);

```

Table 7 is an exemplary pseudo code illustrating how a required flag is used to ensure that a filter criterion is matched, in accordance with one embodiment of the present invention. In Table 7, the local filter criterion has priority over the "date-laterthan" filter criterion, which is optional. In addition, the "date-laterthan" filter criterion has priority over the "client" filter criterion. Although the "date-laterthan" filter criterion fails, since it is optional, there is no overall failure in the matching, and the returned property value is "en Mar. 3, 2003 nokia."

TABLE 7

```

<Properties>
  <String name="a" value="b">
    <ConditionalProperties condition="locale" value="en">
      <String name="a" value="b"/>
    <ConditionalProperties condition="dateLaterThan"
value="03/03/2003">
      <ConditionalProperties condition="client"
value="nokia">
        <String name="a" value="en 03/03/2003
nokia">
          </ConditionalProperties>
        </ConditionalProperties>
      <ConditionalProperties condition="client"
value="nokia">
        <String name="a" value="en nokia">
          </ConditionalProperties>
        </ConditionalProperties>
      </Properties>
      List plist = new List( );
      plist.add(getProviderContext( ).getLocalePropertiesFilter(
        "en", true));
      String filter =
        "com.acme.filters.DateLaterThanPropertiesFilter";
      plist.add(getProviderContext( ).getPropertiesFilter(
        filter, "02/02/2003", false));
      plist.add(getProviderContext( ).getClientPropertiesFilter(
        "nokia", true));
      getStringProperty(getName( ), "a", plist);

```

While the methods of embodiments illustrated in flow charts 500, 600, and 800 show specific sequences and quantity of steps, the present invention is suitable to alternative embodiments. For example, not all the steps provided for in the method are required for the present invention. Furthermore, additional steps can be added to the steps presented in the present embodiment. Likewise, the sequences of steps can be modified depending upon the application.

Embodiments of the present invention, a method and system for the storage and retrieval of extensible and multi-dimensional property configurations that are used to deliver content to a variety of contextual environments have been described. While the invention is described in conjunction with the preferred embodiments, it is understood that they are not intended to limit the invention to these embodiments. On the contrary, the invention is intended to cover alternatives, modifications and equivalents, which may be included within the spirit and scope of the invention as defined by the appended claims. Furthermore, in the detailed description of

the present invention, numerous specific details are set forth in order to provide a thorough understanding of the present invention. However, it will be recognized by one of ordinary skill in the art that the present invention may be practiced without these specific details. In other instances, well known methods, procedures, components, and circuits have not been described in detail as not to unnecessarily obscure aspects of the present invention.

What is claimed is:

1. A method for providing content to an electronic device, comprising:

receiving, from said electronic device, a request for content;

obtaining a plurality of settings associated with said electronic device, wherein said plurality of settings defines a device contextual environment for displaying the content on said electronic device;

incorporating said plurality of settings into a list of filter criteria to obtain a populated list of filter criteria, wherein said populated list of filter criteria is organized in a hierarchical order;

matching said populated list of filter criteria with one of a plurality of support chains of filter criteria, wherein each of said plurality of support chains is associated with one of a plurality of resources, wherein each of said plurality of support chains is organized in said hierarchical order, wherein matching said populated list of filter criteria with one of said plurality of support chains of filter criteria comprises: matching filter criteria in said populated list of filter criteria with said plurality of supported chains using said hierarchical order to obtain a set of matches, wherein the set of matches do not include any exact matches;

selecting said one of said plurality of support chains of filter criteria from said set of matches, wherein selecting said one of said plurality of support chains of filter criteria from said set of matches comprises: determining said one of said plurality of support chains of filter criteria that matches the highest number of filter criteria in said populated list of filter criteria;

determining said one of said plurality of resources associated with said one of said plurality of support chains;

retrieving said one of said plurality of resources from memory, wherein each of said plurality of resources comprises the content formatted to one of said plurality of contextual environments, wherein said device contextual environment is similar to said one of said plurality of contextual environments corresponding to said one of said plurality of resources; and

providing, said one of said plurality of resources to said electronic device.

2. The method of claim 1, wherein at least one filter criteria in said populated list of filter criteria is optional.

3. The method of claim 1, wherein at least one filter criteria in said populated list of filter criteria is required.

4. The method of claim 1, wherein matching said populated list of filter criteria with one of said plurality of support chains of filter criteria comprises:

matching filter criteria in said populated list of filter criteria with said plurality of supported chains using said hierarchical order to obtain a set of matches; and

selecting said one of said plurality of support chains of filter criteria from said set of matches.

5. A portal server comprising:

a data store configured to store a plurality of resources associated with content provided by a channel, wherein



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each of said plurality of resources comprises said content formatted for one of a plurality of contextual environments;

a memory, coupled to said data store, configured to store a plurality of settings associated with an electronic device, wherein said plurality of settings defines a device contextual environment for displaying said content on said electronic device;

a list creator configured to incorporate said plurality of settings into a list of filter criteria to obtain a populated list of filter criteria, wherein said populated list of filter criteria is organized in a hierarchical order;

a matching engine, coupled to said memory, configured to match said populated list of filter criteria with one of a plurality of support chains of filter criteria, wherein each of said plurality of support chains is associated with one of a plurality of resources, wherein each of said plurality of support chains is organized in said hierarchical order, and wherein the matching engine is further configured to determine said one of said plurality of resources associated with said one of said plurality of support chains;

wherein matching said populated list of filter criteria with one of said plurality of support chains of filter criteria comprises: matching filter criteria in said populated list of filter criteria with said plurality of supported chains using said hierarchical order to obtain a set of matches, wherein the set of matches do not include any exact matches;

selecting said one of said plurality of support chains of filter criteria from said set of matches, wherein selecting said one of said plurality of support chains of filter criteria from said set of matches comprises: determining said one of said plurality of support chains of filter criteria that matches the highest number of filter criteria in said populated list of filter criteria;

wherein said portal server is configured to receive from the electronic device a request for content, wherein said portal server is further configured to obtain said plurality of settings associated with said electronic device,

wherein said portal server is further configured to retrieve said one of said plurality of resources from memory, wherein said device contextual environment is similar to said one of said plurality of contextual environments corresponding to said one of said plurality of resources, and

wherein said portal server is further configured to provide said one of plurality of resources to said electronic device.

6. The portal server of claim 5, wherein said matching engine is further configured to match filter criteria in said populated list of filter criteria with said plurality of supported chains using said hierarchical order to obtain a set of matches, and select said one of said plurality of support chains of filter criteria from said set of matches.

7. The portal server of claim 5, wherein said electronic device is coupled to said portal server through a communication network.

8. The portal server of claim 7, wherein said electronic device comprises a wireless portable electronic device.

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9. A computer system comprising:

a processor; and

a computer readable memory coupled to said processor and containing program instructions that, when executed, implement a method of providing content providing content to an electronic device, comprising:

receiving, from said electronic device, a request for content;

obtaining a plurality of settings associated with said electronic device, wherein said plurality of settings defines a device contextual environment for displaying the content on said electronic device;

incorporating said plurality of settings into a list of filter criteria to obtain a populated list of filter criteria, wherein said populated list of filter criteria is organized in a hierarchical order;

matching said populated list of filter criteria with all one of a plurality of support chains of filter criteria, wherein each of said plurality of support chains is associated with one of a plurality of resources, wherein each of said plurality of support chains is organized in said hierarchical order, wherein matching said populated list of filter criteria with one of said plurality of support chains of filter criteria comprises: matching filter criteria in said populated list of filter criteria with said plurality of supported chains using said hierarchical order to obtain a set of matches, wherein the set of matches do not include any exact matches;

selecting said one of said plurality of support chains of filter criteria from said set of matches, wherein selecting said one of said plurality of support chains of filter criteria from said set of matches comprises: determining said one of said plurality of support chains of filter criteria that matches the highest number of filter criteria in said populated list of filter criteria;

determining said one of said plurality of resources associated with said one of said plurality of support chains;

retrieving said one of said plurality of resources from memory, wherein each of said plurality of resources comprises the content formatted for one of said plurality of contextual environments, wherein said device contextual environment is similar to said one of said plurality of contextual environments corresponding to said one of said plurality of resources; and

providing, said one of said plurality of resources to said electronic device.

10. The computer system of claim 9, wherein at least one filter criteria in said populated list of filter criteria is optional.

11. The computer system of claim 9, wherein at least one filter criteria in said populated list of filter criteria is required.

12. The computer system of claim 9, wherein matching said populated list of filter criteria with one of said plurality of support chains of filter criteria further comprises:

matching filter criteria in said populated list of filter criteria with said plurality of supported chains using said hierarchical order to obtain a set of matches; and

selecting said one of said plurality of support chains of filter criteria from said set of matches.

* * * * *

PART B -FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: **Mail Stop ISSUE FEE**
Commissioner for Patents
P.O. Box 1450
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N/A	(Depositor's name)
N/A	(Signature)
N/A	(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/621,486	July 16, 2003	Luu D. Tran	03226/505001; SUN030063	2493

TITLE OF INVENTION: METHOD AND SYSTEM FOR STORING AND RETRIEVING EXTENSIBLE MULTI-DIMENSIONAL DISPLAY PROPERTY CONFIGURATIONS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
Patent	no	\$1,510.00	\$300.00	\$1,810.00	February 17, 2009
EXAMINER		ART UNIT	CLASS-SUBCLASS		
DOAN, DUYN, MY		2452			

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached.

Use of a Customer Number is required.

2. For printing on the patent front page, list

(1) the names of up to 3 registered patent attorneys or agents OR, alternatively,
 (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 Osha · Liang LLP

2

3

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

SUN MICROSYSTEMS, INC.

SANTA CLARA, CALIFORNIA

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are enclosed:

☒ Issue Fee

☒ Publication Fee (No small entity discount permitted)

☐ Advance Order -# of Copies

4b. Payment of Fee(s):

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☒ The Director is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number 50-0591

5. Change in Entity Status (from status indicated above)

☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

The Director of the USPTO is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above.
 NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature /Robert P. Lord/

Date February 4, 2009

Typed or printed name Robert P. Lord

Registration No. 46,479

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CLAIMS AS ALLOWED

1. A method for providing content to an electronic device, comprising:
 - receiving, from said electronic device, a request for content;
 - obtaining a plurality of settings associated with said electronic device, wherein said plurality of settings defines a device contextual environment for displaying the content on said electronic device;
 - incorporating said plurality of settings into a list of filter criteria to obtain a populated list of filter criteria, wherein said populated list of filter criteria is organized in a hierarchical order;
 - matching said populated list of filter criteria with all one of a plurality of support chains of filter criteria, wherein each of said plurality of support chains is associated with one of a plurality of resources, wherein each of said plurality of support chains is organized in said hierarchical order, wherein matching said populated list of filter criteria with one of said plurality of support chains of filter criteria comprises: matching filter criteria in said populated list of filter criteria with said plurality of supported chains using said hierarchical order to obtain a set of matches, wherein the set of matches do not include any exact matches;
 - selecting said one of said plurality of support chains of filter criteria from said set of matches, wherein selecting said one of said plurality of support chains of filter criteria from said set of matches comprises: determining said one of said plurality of support chains of filter criteria that matches the highest number of filter criteria in said populated list of filter criteria;
 - determining said one of said plurality of resources associated with said one of said plurality of support chains;
 - retrieving said one of said plurality of resources from memory, wherein each of said plurality of resources comprises the content formatted for one of said plurality of contextual environments, wherein said device contextual environment is similar to said one of said plurality of contextual environments corresponding to said one of said plurality of resources; and



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providing said one of said plurality of resources to said electronic device.

2. (Cancelled)

3. (Cancelled)

4. The method of claim 1, wherein at least one filter criteria in said populated list of filter criteria is optional.

5. The method of claim 1, wherein at least one filter criteria in said populated list of filter criteria is required.

6. The method of claim 1, wherein matching said populated list of filter criteria with one of said plurality of support chains of filter criteria comprises:

 matching filter criteria in said populated list of filter criteria with said plurality of supported chains using said hierarchical order to obtain a set of matches;
 and

 selecting said one of said plurality of support chains of filter criteria from said set of matches

7. – 21 (Cancelled)

22. A portal server comprising:

 a data store configured to store a plurality of resources associated with content provided by a channel, wherein each of said plurality of resources comprises said content formatted for one of a plurality of contextual environments;

 a memory, coupled to said data store, configured to store a plurality of settings associated with an electronic device, wherein said plurality of settings defines a device contextual environment for displaying said content on said electronic device;

 a list creator configured to incorporate said plurality of settings into a list of filter criteria to obtain a populated list of filter criteria, wherein said populated list of filter criteria is organized in a hierarchical order;

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a matching engine, coupled to said memory, configured to match said populated list of filter criteria with one of a plurality of support chains of filter criteria, wherein each of said plurality of support chains is associated with one of a plurality of resources, wherein each of said plurality of support chains is organized in said hierarchical order, and wherein the matching engine is further configured to determine said one of said plurality of resources associated with said one of said plurality of support chains;

wherein matching said populated list of filter criteria with one of said plurality of support chains of filter criteria comprises: matching filter criteria in said populated list of filter criteria with said plurality of supported chains using said hierarchical order to obtain a set of matches, wherein the set of matches do not include any exact matches;

selecting said one of said plurality of support chains of filter criteria from said set of matches, wherein selecting said one of said plurality of support chains of filter criteria from said set of matches comprises: determining said one of said plurality of support chains of filter criteria that matches the highest number of filter criteria in said populated list of filter criteria;

wherein said portal server is configured to receive from the electronic device a request for content, wherein said portal server is further configured to obtain said plurality of settings associated with said electronic device,

wherein said portal server is further configured to retrieve said one of said plurality of resources from memory, wherein said device contextual environment is similar to said one of said plurality of contextual environments corresponding to said one of said plurality of resources; and

wherein said portal sever is further configured to provide said one of plurality of resources to said electronic device.

23. (Cancelled)

24. The portal server of claim 22, wherein said matching engine is further configured to match filter criteria in said populated list of filter criteria with said plurality of

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supported chains using said hierarchical order to obtain a set of matches, and select said one of said plurality of support chains of filter criteria from said set of matches.

25. The portal server of claim 22, wherein said electronic device is coupled to said portal server through a communication network.

26. The portal server of claim 25, wherein said electronic device comprises a wireless portable electronic device.

27. A computer system comprising:

a processor; and

a computer readable memory coupled to said processor and containing program instructions that, when executed, implement a method of providing content to an electronic device comprising:

receiving, from said electronic device, a request for content;

obtaining a plurality of settings associated with said electronic device, wherein said plurality of settings defines a device contextual environment for displaying the content on said electronic device;

incorporating said plurality of settings into a list of filter criteria to obtain a populated list of filter criteria, wherein said populated list of filter criteria is organized in a hierarchical order;

matching said populated list of filter criteria with one of a plurality of support chains of filter criteria, wherein each of said plurality of support chains is associated with one of a plurality of resources, wherein each of said plurality of support chains is organized in said hierarchical order; wherein matching said populated list of filter criteria with one of said plurality of support chains of filter criteria comprises: matching filter criteria in said populated list of filter criteria with said plurality of supported chains using said hierarchical order to obtain a set of matches, wherein the set of matches do not include any exact matches;

selecting said one of said plurality of support chains of filter criteria from said set of matches, wherein selecting said one of said plurality of support chains



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of filter criteria from said set of matches comprises: determining said one of said plurality of support chains of filter criteria that matches the highest number of filter criteria in said populated list of filter criteria;
determining said one of said plurality of resources associated with said one of said plurality of support chains;
retrieving said one of said plurality of resources from memory, wherein each of said plurality of resources comprises the content formatted for one of said plurality of contextual environments, wherein said device contextual environment is similar to said one of said plurality of contextual environments corresponding to said one of said plurality of resources; and
providing, said one of said plurality of resources to said electronic device.



28. (Cancelled)

29. (Cancelled)

30. The computer system of claim 27, wherein at least one filter criteria in said populated list of filter criteria is optional.

31. The computer system of claim 27, wherein at least one filter criteria in said populated list of filter criteria is required.

32. The computer system of claim 27, wherein matching said populated list of filter criteria with one of said plurality of support chains of filter criteria further comprises:
matching filter criteria in said populated list of filter criteria with said plurality of supported chains using said hierarchical order to obtain a set of matches;
and
selecting said one of said plurality of support chains of filter criteria from said set of matches.

33. (Cancelled)

34. (Cancelled)

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35. (Cancelled)

36. (Cancelled)

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**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**

Page 1 of 1

PATENT NO. : 7,506,070
APPLICATION NO. : 10/621,486
ISSUE DATE : March 17, 2009
INVENTOR(S) : Luu D. Tran et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

On the Cover Page:

On the Cover Page, section (73) Assignee, "Sun Microsystems, Inc." should be
--Sun Microsystems, Inc.--.

In the Claims:

In Claim 1, column 18, line 45, the word "tot" should be --for--.

In Claim 9, column 20, line 17, the word "all" should be deleted.

In Claim 9, column 20, line 40, the word "tot" should be --for--.

MAILING ADDRESS OF SENDER (Please do not use customer number below):

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